

I claim:

- Sub a1* →
1. A method of generating optical emissions from metallic point sources, comprising the steps of:
- 5 forming micron-size droplets containing nano-size particles;  
passing the droplets into individual target sources;  
irradiating the individual target sources with a laser beam having substantially identical diameter to each of the individual droplets; and  
producing optical emissions from the irradiated target sources.
- 10
2. The method of claim 1, wherein the droplets include:  
nano particles of metals in a liquid.
3. The method of claim 2, wherein the liquid is selected from at least one of:
- 15 H<sub>2</sub>O, oil, oleates, soapy solutions, and alcohol.
4. The method of claim 2, wherein the droplets include:  
Tin(Sn) nano-particles in the liquid.
- 20 5. The method of claim 2, wherein the droplets include:  
Copper(Cu) nano-particles in the liquid.
6. The method of claim 2, wherein the droplets include:  
Zinc(Zn) nano-particles in the liquid.
- 25 7. The method of claim 2, wherein the droplets include:  
Gold(Au) nano-particles in the liquid.

8. The method of claim 2, wherein the droplets include:  
Aluminum(Al) nano-particles in the liquid.
- 5 9. The method of claim 2, wherein the droplets include:  
Bismuth(Bi) nano-particles in the liquid.
10. The method of claim 1, wherein the room temperature includes:  
approximately 10 degrees to approximately 30 degrees C.
- 10 11. The method of claim 1, wherein the optical emissions include:  
EUV emissions.
12. The method of claim 1, wherein the optical emissions include:  
15 XUV emissions.
13. The method of claim 1, wherein the optical emissions include:  
X-ray emissions.
- 20 14. The method of claim 1, wherein the optical emissions include:  
wavelengths of approximately 11.7 nm.
15. The method of claim 1, wherein the optical emissions include:  
wavelengths of approximately 13 nm.
- 25 16. The method of claim 1, wherein the optical emissions include:  
wavelength ranges of approximately 0.1 nm to approximately 100 nm.

17. The method of claim 1, wherein the optical emissions include:  
wavelength ranges of approximately 0.5 nm to approximately 1.5 nm.

5 18. The method of claim 1, wherein the optical emissions include:  
wavelength ranges of approximately 2.3 nm to approximately 4.5 nm.

Add A2